Bruhat Bangalore Mahanagara Palike
Excecutive Engineer Yelahanka Project Division

Name of Work: Modified Estimate for Providing Chain link fencing for Government Land at Sampigehalli Near Lake in ward no. 05

DETAILED QUANTITY CALCULATION & COST ESTIMATE

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
1	KSRRB M200-10.1. **Clearing and grubbing road land** including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth up to 300mm, removal of stumps of trees cut earlier and disposal of unserviceable materials and stacking of serviceable material to be used or auctioned, including removal and disposal of top organic soil not exceeding 150 mm in thickness complete as per specifications. I. By Manual Means: A. In area of light jungle. MORTH Specification No. 201. (BCSR 2016-2017, Page 136, Item No 18.13)								
		Ha	1	150.00	50.00		7500.00		
			1	30.00	30.00		900.00		
			1	50.00	60.00		3000.00		
							1.14	**52788.00**	**60178.32**
2	KSRRB M300-11. Excavation for road way in all types of soil by mechanical means including cutting and pushing the earth to site of embankment including trimming bottom and side slopes in accordance with requirements of lines, grades and cross sections complete as per specifications. MORTH Specification No. 301. (BCSR 2016-2017, Page 143, Item No 19.11)								
	Chain Link Fencing	**Cum**							
	East								
	For SSM								
			1	30.00	0.80	0.70	17.00		
			1	30.00	0.80	0.70	17.00		
			1	30.00	0.80	0.70	17.00		
			1	30.00	0.80	0.70	17.00		
			1	12.60	0.80	0.70	8.00		
			1	8.70	0.80	0.70	5.00		
	Deductions		-1	1.30	0.80	0.70	-1.00		
			-1	1.20	0.80	0.70	-1.00		
			-1	1.20	0.80	0.70	-1.00		
	North								
	For SSM								
			1	2.40	0.80	0.70	2.00		
	Gate		1	3.10	0.80	0.70	2.00		
			1	30.00	0.80	0.70	17.00		
			1	7.70	0.80	0.70	5.00		
	West								
	For SSM								
			1	30.00	0.80	0.70	17.00		
			1	28.00	0.80	0.70	16.00		
	South								
	For SSM								
			1	26.90	0.80	0.70	16.00		
			1	11.90	0.80	0.70	7.00		
			1	10.10	0.80	0.70	6.00		
	Gate		1	3.40	0.80	0.70	2.00		
			1	4.90	0.80	0.70	3.00		
	2nd bill								
	Srirampura								
	West side		1	30.00	0.70	0.50	10.50		
	East side		1	29.30	0.70	0.50	10.26		
	North side		1	22.70	0.70	0.50	7.95		
	South side		1	22.40	0.70	0.50	7.84		
							207.54	**189.00**	**39225.06**
3	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (BCSR 2016-2017, Page 12, Item No 4.3)								
	Chain Link Fencing	**Cum**							
	East								
	For SSM								
			1	30.00	0.80	0.15	4.00		
			1	30.00	0.80	0.15	4.00		
			1	30.00	0.80	0.15	4.00		
			1	30.00	0.80	0.15	4.00		

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
			1	12.60	0.80	0.15	2.00		
			1	8.70	0.80	0.15	2.00		
	Deductions		-1	1.30	0.80	0.15	-1.00		
			-1	1.20	0.80	0.15	-1.00		
			-1	1.20	0.80	0.15	-1.00		
	North								
	For SSM								
			1	2.40	0.80	0.15	1.00		
	Gate		1	3.10	0.80	0.15	1.00		
			1	30.00	0.80	0.15	4.00		
			1	7.70	0.80	0.15	1.00		
	West								
	For SSM								
			1	30.00	0.80	0.15	4.00		
			1	28.00	0.80	0.15	4.00		
	South								
	For SSM								
			1	26.90	0.80	0.15	4.00		
			1	11.90	0.80	0.15	2.00		
			1	10.10	0.80	0.15	2.00		
	Gate		1	3.40	0.80	0.15	1.00		
			1	4.90	0.80	0.15	1.00		
	2nd bill								
	Srirampura								
	West side		1	30.00	0.70	0.15	3.15		
	East side		1	29.30	0.70	0.15	3.08		
	North side		1	22.70	0.70	0.15	2.38		
	South side		1	22.40	0.70	0.15	2.35		
							52.96	**5256.00**	**278368.27**
4	KSRB 5.2-2 : Providing and constructing **granite / trap / basalt size stone masonry** in foundation with cement mortar 1 : 6 stone hammerd dressed in courses not less than 20 ems high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications. KBS 5.1.13 (BCSR 2016-2017, Page 23, Item No 5.5)								
	East	**Cum**							
	For SSM								
			1	30.00	0.75	0.60	14.00		
			1	30.00	0.75	0.60	14.00		
			1	30.00	0.75	0.60	14.00		
			1	30.00	0.75	0.60	14.00		
			1	12.60	0.75	0.60	6.00		
			1	8.70	0.75	0.60	4.00		
	Deductions		-1	1.30	0.75	0.60	-1.00		
			-1	1.20	0.75	0.60	-1.00		
			-1	1.20	0.75	0.60	-1.00		
	North								
	For SSM								
			1	2.40	0.75	0.80	2.00		
	Gate		1	3.10	0.75	0.40	1.00		
			1	30.00	0.75	0.80	18.00		
			1	7.70	0.75	0.80	5.00		
	West								
	For SSM								
			1	30.00	0.75	0.60	14.00		
			1	28.00	0.75	0.60	13.00		
	South								
	For SSM								
			1	26.90	0.75	0.60	13.00		
			1	11.90	0.75	0.60	6.00		
			1	10.10	0.75	0.60	5.00		
	Gate		1	3.40	0.75	0.40	2.00		
			1	4.90	0.75	0.60	3.00		
	Top course								
	East								
	For SSM								
			1	30.00	0.45	0.20	3.00		
			1	30.00	0.45	0.20	3.00		
			1	30.00	0.45	0.20	3.00		
			1	30.00	0.45	0.20	3.00		
			1	12.60	0.45	0.20	2.00		
			1	8.70	0.45	0.20	1.00		
	Deductions		-1	1.30	0.45	0.20	-1.00		
			-1	1.20	0.45	0.20	-1.00		

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
			-1	1.20	0.45	0.20	-1.00		
	West								
	For SSM								
			1	30.00	0.45	0.20	3.00		
			1	28.00	0.45	0.20	3.00		
	South								
	For SSM								
			1	26.90	0.45	0.20	3.00		
			1	11.90	0.45	0.20	2.00		
			1	10.10	0.45	0.20	1.00		
	Gate		1	3.40	0.45	0.20	1.00		
			1	4.90	0.45	0.20	1.00		
	For angle fixing		-121	0.30	0.30	0.30	-4.00		
	Srirampura								
	2nd bill								
	West side		1	30.00	0.60	0.80	14.40		
			1	30.00	0.45	0.40	5.40		
	East side		1	29.30	0.60	0.40	7.03		
			1	29.30	0.45	0.40	5.27		
	North side		1	22.70	0.60	0.40	5.45		
			1	22.70	0.45	0.40	4.09		
	South side		1	22.40	0.60	0.40	5.38		
			1	22.40	0.45	0.40	4.03		
	For angle fixing		-42	0.30	0.30	0.30	-1.13		
							216.91	**4521.00**	**980668.19**
5	KSRB 4-1 .6 ; Providing and laying in position **plain cement concrete of mix 1:2:4** with cement@ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 ems. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.(BCSR 2016-2017, Page 12, Item No 4.6)								
	Coping	**Cum**							
	North								
	For Coping								
			1	2.40	0.75	0.10	1.00		
	Gate		1	3.10	0.75	0.10	1.00		
			1	30.00	0.75	0.10	3.00		
			1	7.70	0.75	0.10	1.00		
	Top course								
	East								
	For Coping								
			1	30.00	0.45	0.10	2.00		
			1	30.00	0.45	0.10	2.00		
			1	30.00	0.45	0.10	2.00		
			1	30.00	0.45	0.10	2.00		
			1	12.60	0.45	0.10	1.00		
			1	8.70	0.45	0.10	1.00		
	Deductions		-1	1.30	0.45	0.10	-1.00		
			-1	1.20	0.45	0.10	-1.00		
			-1	1.20	0.45	0.10	-1.00		
	West								
	For Coping								
			1	30.00	0.45	0.10	2.00		
			1	28.00	0.45	0.10	2.00		
	South								
	For Coping								
			1	26.90	0.45	0.10	2.00		
			1	11.90	0.45	0.10	1.00		
			1	10.10	0.45	0.10	1.00		
	Gate		1	3.40	0.75	0.10	1.00		
			1	4.90	0.45	0.10	1.00		
	For angle fixing		121	0.30	0.30	0.30	4.00		
	Srirampura								
	2nd bill								
	West side		1	30.00	0.45	0.075	1.01		
	East side		1	29.30	0.45	0.075	0.99		
	North side		1	22.70	0.45	0.075	0.77		
	South side		1	22.40	0.45	0.075	0.76		
	For angle fixing		42	0.30	0.30	0.30	1.13		
							31.66	**5876.00**	**186019.47**

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
6	KSRRB M2200-8.1. **Back filling** behind abutment, wing wall and return wall complete as per drawing and Technical Specification complete as per specifications. A. Granular material MORTH Specification No. 2204 (BCSR 2016-2017, Page 225, Item No 28.11)								
	Chain Link Fencing	**Cum**							
	East								
	For SSM								
			1	30.00	0.15	0.45	3.00		
			1	30.00	0.15	0.45	3.00		
			1	30.00	0.15	0.45	3.00		
			1	30.00	0.15	0.45	3.00		
			1	12.60	0.15	0.45	1.00		
			1	8.70	0.15	0.45	1.00		
	Deductions		-1	1.30	0.15	0.45	-1.00		
			-1	1.20	0.15	0.45	-1.00		
			-1	1.20	0.15	0.45	-1.00		
	North								
	For SSM								
			1	2.40	0.15	0.45	1.00		
	Gate		1	3.10	0.15	0.45	1.00		
			1	30.00	0.15	0.45	3.00		
			1	7.70	0.15	0.45	1.00		
	West								
	For SSM								
			1	30.00	0.15	0.45	3.00		
			1	28.00	0.15	0.45	2.00		
	South								
	For SSM								
			1	26.90	0.15	0.45	2.00		
			1	11.90	0.15	0.45	1.00		
			1	10.10	0.15	0.45	1.00		
	Gate		1	3.40	0.15	0.45	1.00		
			1	4.90	0.15	0.45	1.00		
	2nd bill								
	Srirampura								
	West side		1	30.00	0.15	0.45	2.03		
	East side		1	29.30	0.15	0.45	1.98		
	North side		1	22.70	0.15	0.45	1.53		
	South side		1	22.40	0.15	0.45	1.51		
							35.05	**565.00**	**19801.56**
7	Providing **chain link fencing** 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (BCSR 2016-2017, Page 262, Item No 37.3)								
	Chain Link Fencing	**Sqm**							
	East								
			1	30.00		2.00	60.00		
			1	30.00		2.00	60.00		
			1	30.00		2.00	60.00		
			1	30.00		2.00	60.00		
			1	12.60		2.00	26.00		
			1	8.70		2.00	18.00		
	North								
			1	2.40		2.00	5.00		
			1	30.00		2.00	60.00		
			1	7.70		2.00	16.00		
	West								
	For SSM								
			1	30.00		2.00	60.00		
			1	26.70		2.00	54.00		
	South								
	For SSM								
			1	26.00		2.00	52.00		
	Temple1		1	11.00		2.00	22.00		
			1	11.90		2.00	24.00		
	Temple2		1	5.00		2.00	10.00		
			1	10.10		2.00	21.00		
			1	4.90		2.00	10.00		
	2nd bill								
	Srirampura								
	West side		1	30.00		1.80	54.00		

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
	East side		1	29.30		1.80	52.74		
	North side		1	9.20		1.80	16.56		
			1	10.70		1.80	19.26		
	South side		1	22.40		1.80	40.32		
							800.88	**711.00**	**569425.68**
8	Supplying and fixing **M.S. Rectangular poles** made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1 :2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 ems. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineer-in - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (BCSR 2016-2017, Page 262, Item No 37.2)								
	Chain Link Fencing	**m**							
	For Angles		121			2.40	291.00		
	2nd bill								
	Srirampura								
	West side		11			2.25	24.75		
	East side		11			2.25	24.75		
	North side		10			2.25	22.50		
	South side		10			2.25	22.50		
							385.50	**900.00**	**346950.00**
9	Providing and fixing **M.S. Block pipe** of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint (BCSR 2016-2017, Page 262, Item No 37.4)								
	Chain Link Fencing	**m**							
	East								
			3	30.00			90.00		
			3	30.00			90.00		
			3	30.00			90.00		
			3	30.00			90.00		
			3	12.60			38.00		
			3	8.70			27.00		
	North								
			3	2.40			8.00		
			3	30.00			90.00		
			3	7.70			24.00		
	West								
	For SSM								
			3	30.00			90.00		
			3	26.70			81.00		
	South								
	For SSM								
			3	26.00			78.00		
	Temple1		3	11.00			33.00		
			3	11.90			36.00		
	Temple2		3	5.00			15.00		
			3	10.10			31.00		
			3	4.90			15.00		
	2nd bill								
	Srirampura								
	West side		3	30.00			90.00		
	East side		3	29.30			87.90		
	North side		3	9.20			27.60		
			3	10.70			32.10		
	South side		3	22.40			67.20		
							1230.80	**450.00**	**553860.00**
10	Providing and fixing **M.S. Gate** as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specification. (BCSR 2016-2017, Page 42, Item No 7.37)								
	Sub Total	3168.72							
	3.39% Tender Premium	107.42							
	Total	3276.14							

Item No.	Description	Unit	No.	Length, m	Width, m	Depth, m	Quantity	Rate, Rs	Amount, Rs
	Quaoted Rate	3168.00							
	Gate	**Sqm**							
			2.00	3.10		2.40	15.00		
	2nd bill								
	Srirampura								
	North side		1.00	2.80		1.80	6.00		
							21.00		
					Upto 125%		**8.44**	**3168.00**	**26730.00**
					Above 125%		**12.56**	**3168.00**	**39798.00**
								Total Cost of Construction, Rs.	**3101024.55**
								Rounding Off, Rs.	**377.45**
								Tender Cost, Rs.	**3101402.00**

Certificate

1. The workspot was inspected and works is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Engineer,
Yelahanka Project Division

Asst. Exec. Engineer,
Yelahanka Project Division

Executive Engineer,
Yelahanka Project Division

Technical Sanction
Accorded For 30.00 Lakh (+3.39 Tender
Head of A/C P3119
CER NO : 10 Dt: 05.03.19

TA CE (YNK)